



LKT Laboratories, Inc.

## Carbimazole

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### Product Information

**Product ID** C0172

**CAS No.** 22232-54-8

**Chemical Name** 2,3-Dihydro-3-methyl-2-thioxo-1H-imidazole-1- carboxylic acid ethyl ester

**Synonym** Athyromazole, Neo-mercazole, Neo-Thyreostat

**Formula** C<sub>7</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>S

**Formula Wt.** 186.23

**Melting Point** 122-125° C

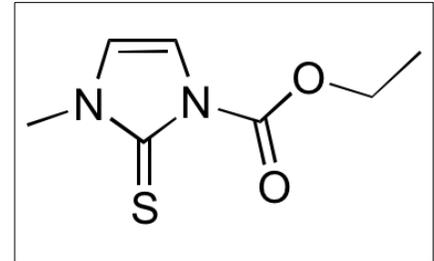
**Purity** ≥98%

**Solubility** Soluble in water (500parts), ethanol (50parts), and chloroform (3parts).

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Carbimazole is a methimazole prodrug that is clinically used to treat hyperthyroidism and Graves' disease; it exhibits immunomodulatory and anti-thyroid activities. Carbimazole inhibits thyroid peroxidase, decreasing production of thyroid hormones T3 and T4. In clinical subjects with Graves' disease, carbimazole increases levels of IL-2 and free radical scavengers and decreases levels of IL-2Rs.



**Bulk quantities available upon request**

Product ID	Size
C0172	1 g
C0172	5 g
C0172	10 g

**References** Manna D, Roy G, Mughes G. Antithyroid drugs and their analogues: synthesis, structure, and mechanism of action. *Acc Chem Res.* 2013 Nov 19;46(11):2706-15. PMID: 23883148.

Wilson R, McKillop JH, Buchanan LM, et al. The effect of carbimazole therapy on interleukin 2, interleukin 2 receptors and free radicals. *Autoimmunity.* 1990;8(1):3-7. PMID: 2129783.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.